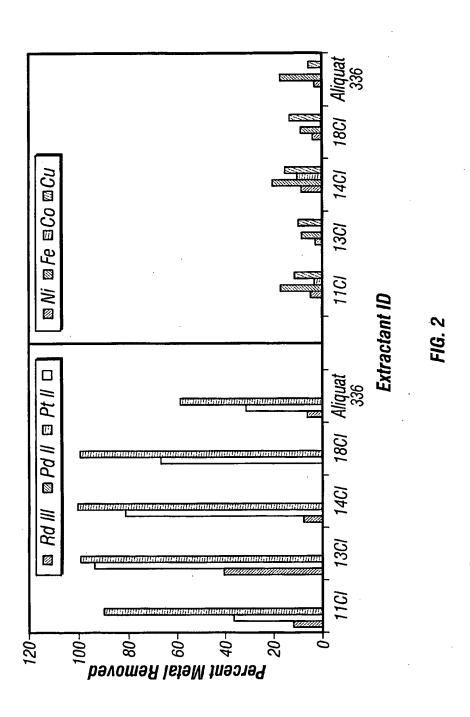


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Inventor: Waheguru Pal Singh Application No.: 10/647,104 Attorney Dkt. No.: LYNN/0144.B

*2/16* 



Inventor: Waheguru Pal Singh Application No.: 10/647,104 Attorney Dkt. No.: LYNN/0144.B

		Conformation			
Sompound	D-Value Pd II	Minimum Energy	Connectivity Index (order 2, standard)	Dipole Moment (debye)	Electron Attinity (eV)
	 	(kcal/mole)	0	É	F
118	2.86	39.331	11.632	12.744	7.127
911		39.449	11.985	2.933	6.601
1 10	1.75	40.322	12.692	0.01	5.948
114	2.6	39.924	11.071	25.323	8.122
117	3.3	50.797	17.289	25.52	7.139
115	0.42	49.902	17.642	0.025	6.597
112	1.59	50.899	18.349	0.124	5.946
DQ 13	3.22	50.293	16.728	52.726	8.119
111	0.89	49.694	16.935	0.148	7.867

Inventor: Waheguru Pal Singh Application No.: 10/647,104 Attorney Dkt. No.: LYNN/0144.B

HOMO Energy (ev)		13.703	13.635	13.52	13.855	12.628	12.601	12.552	12.687	12.661
Heat of Formation (kcal/mole)		258.295	242.427	218.102	291.32	171.131	155.69	131.143	204.337	190.296
Total Energy (Hartree)	,	214.593	221.775	236.121	205.938	329.153	336.331	350.679	320.496	321.968
Steric Energy (kcal/mole)	Н	39.331	39.597	40.322	39.924	50.797	49.902	50.899	50.293	49.694
Dielectric Energy (kcal)/mole)	9	7.7	7.211	6.602	8.438	7.759	7.301	6.62	8.487	8.312
Compound		DQ 18	DQ 16	DQ 10	DQ 14	DQ 17	DQ 15	00 12	DQ 13	DQ11

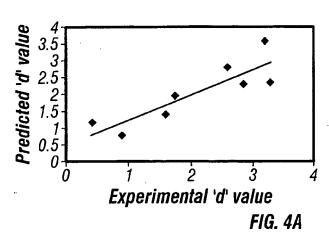
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					,					
Shape Index Connectivity (basic kappa, Index (order 2, order 3) standard)	Ь	11.069	11.423	12.13	10.53	16.726	17.08	17.787	16.187	16.372
Valence Connectivity Index (order 2, standard)	Ö	521.24	539.815	576.054	485.397	813.7	831.853	883.721	778.615	793.278
Shape Index (basic kappa, order 3)	0	21.031	22.027	23.967	13.04	36.681	989′./8	39.628	26.747	35.716
LUMO (eV) Energy	N	-7.127	-6.601	-5.948	-8.122	-7.139	-6.598	5.946	-8.119	-7.867
Tog P	N	6.409	98.9	7.653	6.179	12.75	13.201	13.993	12.52	12.697
lonization Potential (eV)	7	13.703	13.635	13.52	13.855	12.628	12.601	12.552	12.687	15.661
Сотроипа		DQ 18	DQ 16	DQ 10	DQ 14	DQ 17	DQ 15	DO 12	DQ 13	1100

Amines"

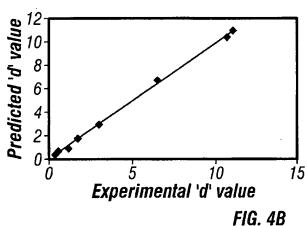
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## 6/16



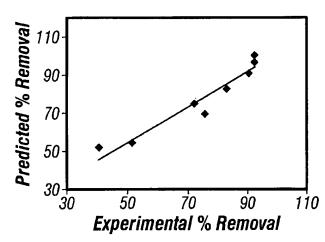
Predictive Eq. for Pd II

B=0.0554277\*E+0.61
0452\*L-16.7616/N9.0729



Predictive Eq. for Pd IV

B=71.6336\*D+0.4637
96\*E+23.6272\*F+19.8
848\*G9.37422\*H+2.71931\*I
+108.256



Predictive Eq. for Pt II

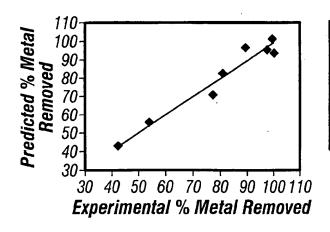
B=-276.194\*L69.6714\*M4.68162\*N7.67628\*0+3.7778\*P154.864\*Q+4211.14

FIG. 4C

Amines"

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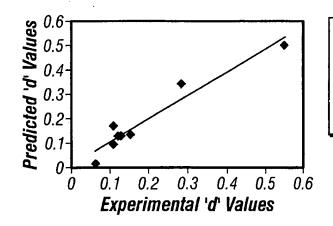
7/16



Predictive Eq. for Pt IV

B=283.378\*D+1.4239 9\*E+173.825\*F+212.2 66\*G+2.69479\*H+14 4354\*I+167.3

FIG. 4D



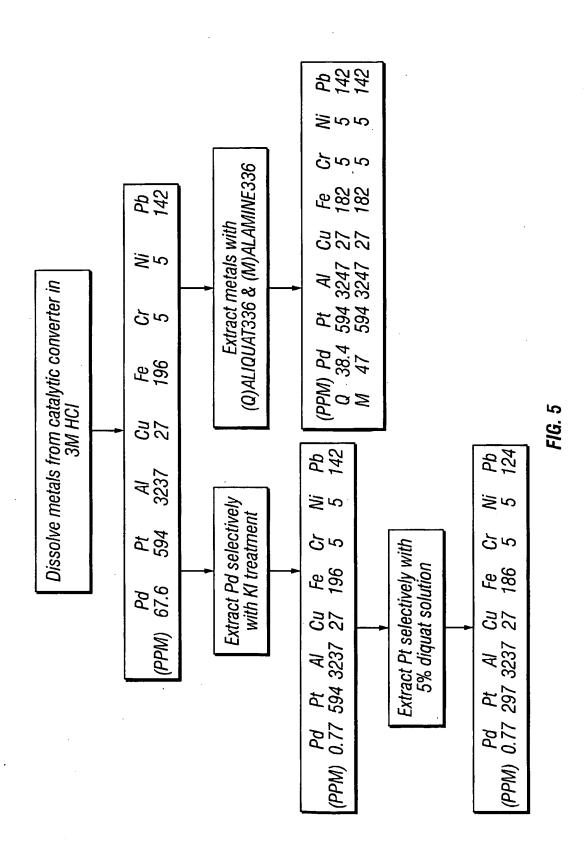
Predictive Eq. for Rh III

B=0.00584793\*E-0.90334\*N-42.1486/N-12.3346

FIG. 4E

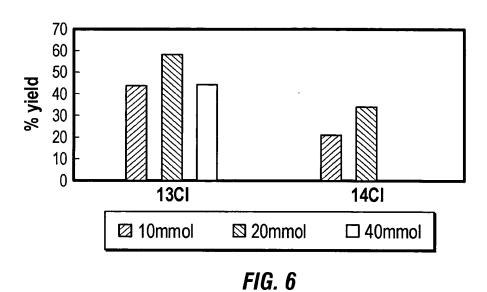
Amines"

8/16



Amines"

9/16



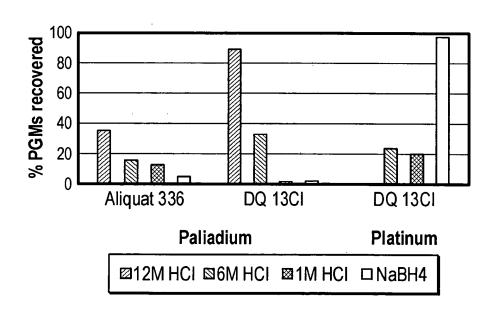


FIG. 7

Inventor: Waheguru Pal Singh Application No.: 10/647,104 Attorney Dkt. No.: LYNN/0144.B

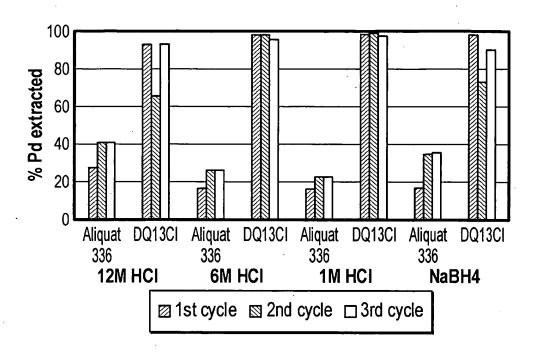


FIG. 8

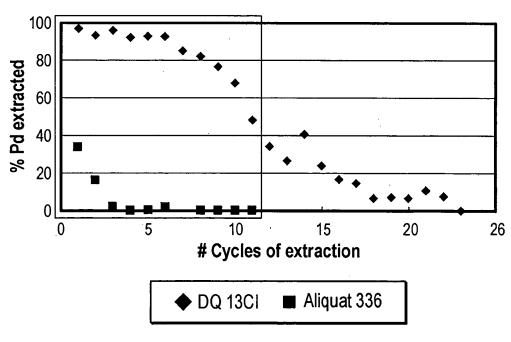


FIG. 9

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11/16

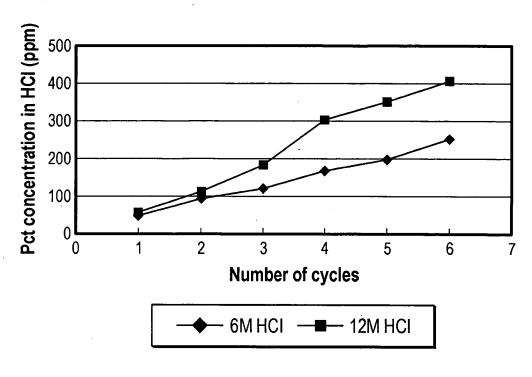


FIG. 10

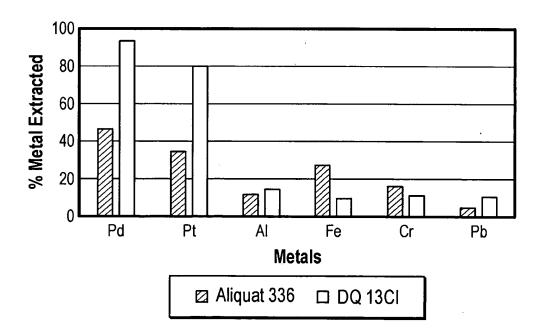


FIG. 11

Amines"

12/16

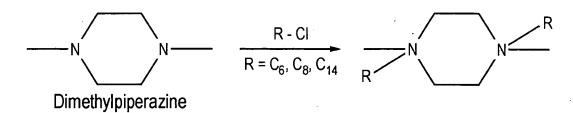


FIG. 12

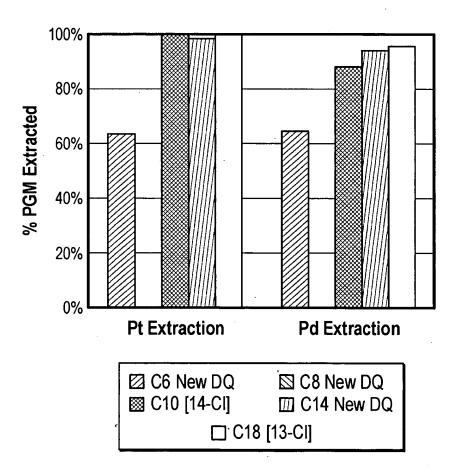


FIG. 13

Amines"

13/16

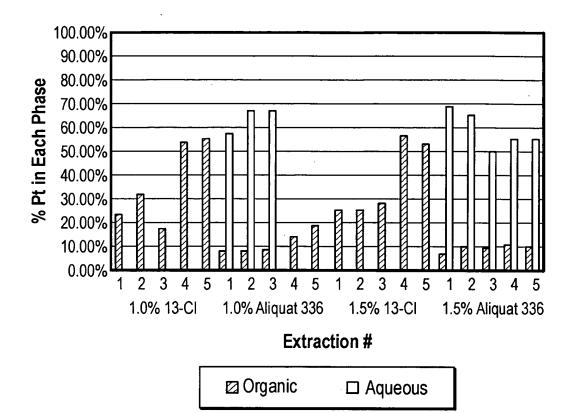


FIG. 14

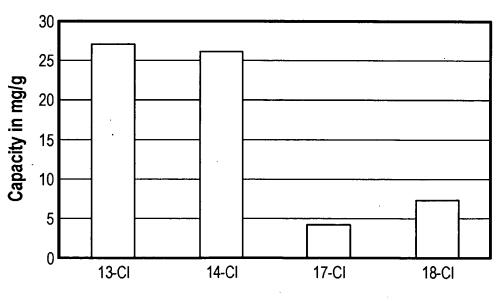


FIG. 15

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14/16

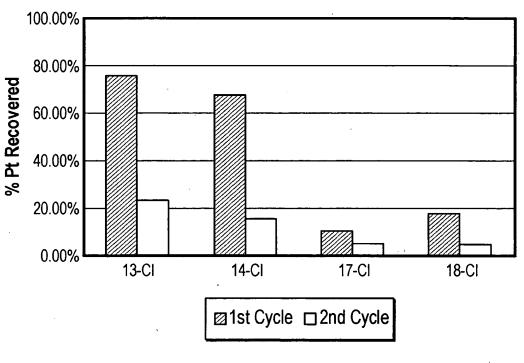


FIG. 16

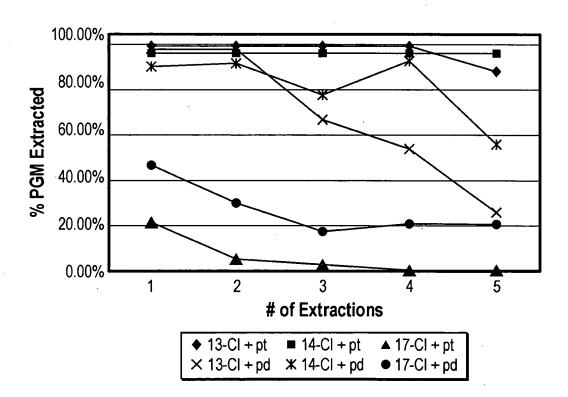
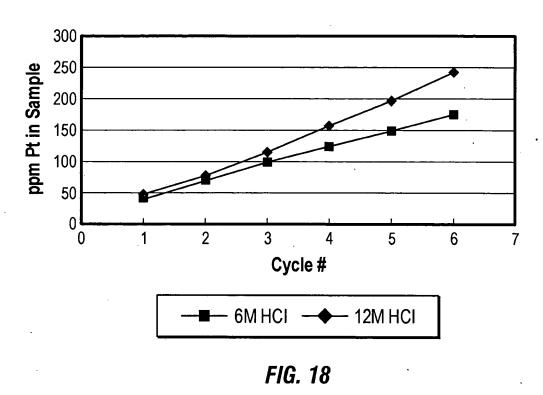


FIG. 17

Amines"

*15/16* 



Anode Pd Cathode Ti

FIG. 19

Amines"

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